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OFFICIAL PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICEIn re Application of:
Huston et al.

Serial No. 10/772,071

Filed: February 4, 2004

For: METHOD AND APPARATUS FOR
MESSAGE DISPLAY ON A GOLF
COURSE

Group Art Unit: 2681

Examiner: Unknown

Atty. Dkt. No. 5683-00203

I hereby certify that this correspondence is being transmitted via facsimile or deposited with the U.S. Postal Service as First Class Mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313, on the date indicated below:

8-2-04

Date

Pamela Gerik

Pamela Gerik

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313

Sir:

Applicant requests consideration of ☒ the references listed on the attached Form PTO-1449 and/or ☐ the additional information identified below in paragraph 3. Pursuant to 37 CFR §§ 1.98(d)(1) and (2), copies of the cited references are not provided since they were previously cited and provided in prior application SN 08/926,293 to which the present application claims priority under 35 USC § 120.

1. This Information Disclosure Statement is submitted:

- a. ☐ within 3 months of the filing date of a national application other than a continued prosecution application under § 1.53(d);
☐ within 3 months of the date of entry of the national stage as set forth in § 1.491 in an International application;
☒ before the mailing date of a first Office Action on the merits; or
☐ before the mailing of a first Office Action after the filing of a request for continued examination under § 1.114.
- b. ☐ after the events of above paragraph 1a and prior to the mailing date of a final Office Action or Notice of Allowance, and thus: ☐ the certification of paragraph 2 below is provided, or ☐ a fee of \$180.00 is enclosed.
- c. ☐ after the mailing date of a final Office Action or a Notice of Allowance and prior to payment of the issue fee, and thus: the certification of paragraph 2 below is provided and a fee of \$180.00 is enclosed.

2. It is hereby certified:

- ☐ that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the Statement, or
- ☐ that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the person signing the certification after making reasonable inquiry, was known to any individual designated in § 1.56 (c) more than three months prior to the filing of the Statement.

3. ☐ Consideration of the following additional information (including any co-pending or abandoned U.S. applications, prior uses and/or sales, etc.) is requested:

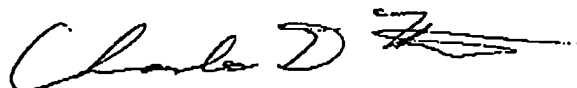
4. For each non-English language reference listed on the attached Form PTO-1449:

- ☐ reference is made to an English language translation submitted herewith, and/or
- ☐ reference is made to a foreign patent office search report (in the English language) submitted herewith, and/or
- ☐ reference is made to an English language translation of a foreign patent office search report submitted herewith, and/or
- ☐ reference is made to the concise explanation contained in the specification of the present application at page(s) _____, and/or
- ☐ reference is made to the concise explanation set forth below:

5. ☐ Applicant also offers the following comments for the Examiner's consideration:6. ☐ Also enclosed is a copy of a foreign search report citing these references.7. ☐ The listed documents were brought to the attention of the Applicant(s) after payment of the issue fee in the captioned case. The documents were cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. Applicant(s) request this Information Disclosure Statement and attached Form PTO-1449 be placed in the file of the captioned application.8. ☐ Applicant(s) requests that the Information Disclosure Statement and attached Form PTO-1449 and references, which are being filed before the grant of the patent and pursuant to 37 C.F.R. § 1.97(i), be placed in the file of the captioned application.

If any required fees are missing, the Commissioner is authorized to charge said fees to Conley Rose, P.C. Deposit Account No. 03-2769/5863-00203.

Respectfully submitted,



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(512) 476-1400

Date: 2 Aug 04

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[illegible]

EXAMINER:

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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the patent owner.

Information Disclosure Statement--PTO 1449 (modified) 4/14

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Form PTO-1449										Atty. Docket No. 5863-00203		Serial No. 10/772,071		
INFORMATION DISCLOSURE CITATION IN AN APPLICATION (Use several sheets if necessary)										Applicant C. D. Huston, D. J. Cornish				
										Filing Date 2/4/2004		Group 2681		
U.S. PATENT DOCUMENTS														
EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
	AA	5	3	2	6	0	9	5	7/5/94	Douglas Dudley				
FOREIGN PATENT DOCUMENTS														
		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)														
EXAMINER										DATE CONSIDERED				
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Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Form PTO-1449 (REV. 8-83)		U.S. Department of Commerce Patent and Trademark Office		Serial No. 5863-00203		10/772,071								
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EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
	AB	5	0	5	6	1	0	6	8/10/91	Wang et al.	375	1		
	AC	4	7	5	1	5	1	2	14/06/88	Longaker	342	357		
	AD	5	0	4	4	6	3	4	03/09/91	Dudley	273	32R		
	AE	4	7	8	3	0	7	1	08/10/88	Tattershall	273	32H		
	AF	4	6	6	6	1	5	7	19/05/87	Bodine	273	32H		
FOREIGN PATENT DOCUMENTS														
		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO	
	AG	9	3	1	2	4	3	9	24/06/93	PCT, Australia				
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)														
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Form PTO-1449 (modified) List of Patents and Publications for Applicant's INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	Atty. Docket No. 5863-00203	Serial No. 10/772,071
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U.S. Patent Documents See Pages 1-3	Foreign Patent Documents See Page 3	Other Art See Pages 3-8

U.S. Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date If App.
	A1	3,126,545	3/24/64	Smith	343	103	11/23/60
	A2	3,150,372	9/22/64	Groth, Jr.	343	112	6/23/59
	A3	3,182,314	5/4/65	Kleist et al.	343	6.5	6/4/62
	A4	3,375,520	3/26/68	De Groot et al.	343	103	5/7/65
	A5	3,771,483	11/13/73	Bond	114	39	10/29/71
	A6	3,868,692	2/25/75	Woodard et al.	343	112	9/13/73
	A7	4,027,840	6/7/77	Blair	246	122	9/30/75
	A8	4,086,630	4/25/78	Speiser et al.	364	410	1/19/76
	A9	4,136,394	1/23/79	Jones et al.	364	561	9/23/77
	A10	4,297,710	10/27/81	Dupressoir	343	756	3/4/80
	A11	4,303,243	12/1/81	Wolfe	273	176	6/17/80
	A12	4,359,733	11/16/82	O'Neill	343	6.5	9/23/80
	A13	4,419,655	12/6/83	May	340	323	7/30/80
	A14	4,480,310	10/30/84	Alvarez	364	450	7/9/82
	A15	4,489,314	12/18/84	Miller	340	568	9/23/82
	A16	4,656,463	4/7/87	Anders et al.	340	572	4/21/83
	A17	4,656,476	4/7/87	Tavrigian	340	993	8/26/85
	A18	4,698,781	10/6/87	Cockerell, Jr.	364	561	4/9/86
	A19	4,703,444	10/27/87	Storms, Jr. et al.	364	561	4/3/86
	A20	4,754,465	6/28/88	Trimble	375	1	5/7/84
	A21	4,783,744	11/8/88	Yueh	364	454	12/8/86
	A22	4,785,463	11/15/88	Janc et al.	375	1	9/3/85

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Information Disclosure Statement — PTO-1449 (Modified)

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	A23	4,819,174	4/4/89	Furuno et al.	364	444	1/29/87
	A24	4,823,086	4/18/89	Whitmire et al.	324	434	7/1/88
	A25	4,847,862	7/11/89	Braisted et al.	375	1	4/7/88
	A26	4,857,886	8/15/89	Crews	340	323	2/26/88
	A27	4,863,123	9/5/89	Bernard et al.	246	122	9/1/87
	A28	4,896,580	1/30/90	Rudnicki	89	1.815	12/21/88
	A29	4,906,825	3/6/90	Wu	235	95	12/9/88
	A30	4,910,677	3/20/90	Remedio et al.	364	410	5/18/88
	A31	4,926,161	5/15/90	Cupp	340	572	10/23/89
	A32	4,970,523	11/13/90	Braisted et al.	342	418	3/27/89
	A33	5,025,261	6/18/91	Ohta et al.	342	357	1/16/90
	A34	5,039,091	8/13/91	Johnson	272	131	10/19/90
	A35	5,086,390	2/4/92	Matthews	364	410	1/16/90
	A36	5,095,430	3/10/92	Bonito et al.	364	410	4/17/90
	A37	5,097,416	3/17/92	Matthews	364	410	1/16/90
	A38	5,108,334	4/28/92	Eschenbach et al.	455	314	6/1/89
	A39	5,127,044	6/30/92	Bonito et al.	379	88	2/20/90
	A40	5,129,605	7/14/92	Burns et al.	246	5	9/17/90
	A41	5,148,002	9/15/92	Kuo et al.	219	211	3/14/91
	A42	5,163,004	11/10/92	Rentz	364	460	1/11/91
	A43	5,214,679	5/25/93	Mercalf	377	5	6/13/91
	A44	5,223,844	6/29/93	Mansell et al.	342	357	4/17/92
	A45	5,245,537	9/14/93	Barber	364	410	11/25/91

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U.S. Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date if App.
	A46	5,270,936	12/14/93	Fukushima et al.	364	444	9/23/92
	A47	5,305,201	4/19/94	Mathews	364	410	1/24/92
	A48	5,345,244	9/6/94	Gildea et al.	342	357	1/12/93
	A49	5,355,140	10/11/94	Slavin et al.	342	386	9/15/92
	A50	5,364,093	11/15/94	Huston et al.	273	32	12/10/91
	A51	5,379,045	1/3/95	Gilbert et al.	342	357	9/1/93
	A52	5,434,789	7/18/95	Fraker et al.	364	460	10/6/93
	A53	5,491,486	2/13/96	Welles, II et al.	342	357	4/25/94
	A54	5,510,797	4/23/96	Abraham et al.	342	352	4/15/93
	A55	5,512,902	4/30/96	Guthrie et al.	342	357	4/18/94
	A56	5,519,403	5/21/96	Bickley et al.	342	352	11/29/93
	A57	5,524,081	6/4/96	Paul	364	460	5/2/94
	A58	5,550,551	8/27/96	Alesio	342	457	7/25/94
	A59	5,552,772	9/3/96	Janky et al.	340	573	12/20/93
	A60	5,568,119	10/22/96	Schipper et al.	340	825.370	12/21/93
	A61	5,568,152	10/22/96	Janky et al.	342	357	2/4/94

Foreign Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No
	B1	JP 2-189414	25 Jul 90	Japan	5		No
	B2	JP 3-78678	3 Apr 91	Japan	5		No
	B3	JP 3-92714	17 Apr 91	Japan	5		No

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	B4	JP 3-134715	07 Jun 91	Japan	5		Yes
	B5	JP 4-20360	23 Jan 92	Japan	5		No
	B6	JP 4-335178	24 Nov 92	Japan	5		No
	B7	JP 5-19035	26 Jan 93	Japan	5		No
	B8	JP 5-46079	26 Feb 93	Japan	5		No
	B9	UK 2 246 198 A	22 Jan 92	GB			Yes
	B10	WO 87/06713	5 Nov 87	PCT	4		Yes
	B11	WO 95/21386	10 Aug 95	PCT	6		Yes
	B12	WO 96/21161	11 Jul 96	PCT	6		Yes
	B13	WO 96/35197	07 Nov 96	PCT	6		Yes

Other Art (Including Author, Title, Date, Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
	C1	Magnavox Advanced Products and Systems Company, brochure: "After Challenger: Marine Satellite Navigation at The Crossroads," (1986) 5 pp.
	C2	Trimble Navigation, brochure: Information (1989) 26 pp.
	C3	Beser et al., "The Application of NAVSTAR Differential GPS in the Civilian Community," Journal of The Institute of Navigation; (Vol. 29, No. 2, Summer 1982), pp. 107-136
	C4	Yiu, et al., "A Low-Cost GPS Receiver for Land Navigation," Journal of The Institute of Navigation; (Vol. 29, No. 3, Fall 1982), pp. 204-220

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Other Art (Including Author, Title, Date, Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
	C5	Vanicek et al., Department of Surveying Engineering, Univ. of New Brunswick, Canada, "The Future of Geodetic Networks," (1983) pp. 372-379
	C6	Parkinson et al., "NAVSTAR: Global Positioning System -- Ten Years Later," IEEE, Vol. 71 No. 10 (October 1983), pp. 1177-1186
	C7	Stansell, "Civil GPS From a Future Perspective," IEEE, Vol. 71, No. 10 (October 1983), pp. 1187-1192
	C8	Pietraszewski, "A Short and Long Term Comparison of LORAN-C and Civil NAVSTAR GPS Signal Stabilities," (1984) 17 pages
	C9	Braisted, et al., "Combining LORAN and GPS -- The Best of Both Worlds," Journal of The Institute of Navigation, (Vol. 33, No. 1, Spring 1986) pp. 20-25
	C10	Dork, "Satellite Navigation Systems for Land Vehicles," (November 1986) pp. 414-418
	C11	Aggarwal, Magnavox Advanced Products and Systems Company, "Integration of Differential GPS with INS for Precise Position, Attitude and Azimuth Determination," (September 1987) 10 pages
	C12	Klass, "Industry Devising GPS Receivers With Hybrid Navigation Aids," Aviation Week & Space Technology (December 14, 1987) pp. 121-122
	C13	Canadian GPS Associates, "Land Applications In Transportation and Communication," (January 1988) 2 pages
	C14	Ashjaee, "Differential GPS With Ashtech XII," IEEE (1988) pp. 318-322
	C15	Green, "The GPS 21 Primary Satellite Constellation," (1988) 7 pages
	C16	Beck, et al., "Proceedings of the First Global Positioning System," (January 1988) pp. 1-38
	C17	Vanicek, "Hiking and Biking with GPS: The Canadian Perspective," (April 1988) pp. 225-229
	C18	Greening, "GPS Surveys and Boston's Central Artery/Third Harbor Tunnel Project," (May 1988) pp. 165-171
	C19	Gerlach et al., "Evaluation of GPS Instruments For Resource Management Applications," (September 1988) pp. 503-507

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U.S. Patent Documents See Pages 1-3		Foreign Patent Documents See Page 3	Other Art See Pages 3-8
C20	Hunter et al., "Land Navigation and Fleet Management With GPS, LORAN and Dead Reckoning Sensors," (November 1988) pp. 54-60		
C21	Curry et al., "Developing a Low-Cost GPS Receiver for Marine Applications," (November 1988) pp. 492-498		
C22	Hunter, et al., "Vehicle Navigation Using Differential GPS," (November 1988) pp. 139-143		
C23	Palmer, "Precise Navigation, Guidance and Control Services within the Agricultural Community," The Journal of Navigation Vol. 42, No. 1 (January 1989)		
C24	Hurn, "GPS: A Guide To The Next Utility," Trimble Navigation (1989)		
C25	Brunsighan, et al., "Orientation Aid Implementing the Global Positioning System," (March 1989) pp. 33-34		
C26	Magnavox Advanced Products & Systems Company, "Points & Positions," Vol. VI, No. 1 (Spring 1989)		
C27	Trimble Navigation, brochure: "NavGraphic II, GPS/LORAN Receiver," (May 1989) 6 pages		
C28	Green et al., "Space Applications of GPS," (January 1989) Journal of the Institute of Navigation Vol. 36, No. 3 (Fall 1989) pp. 239-251		
C29	Lachapelle, "A Comparative Analysis of LORAN-C and GPS for Land Vehicle Navigation in Canada," (September 1989) 3 pages		
C30	Harris et al., "AVLN 2000™ Automatic Vehicle Location and Navigation System," (1989) pp. 126-130		
C31	Banks, "DATATRAK Automatic Vehicle Location and Position Reporting System," (1989) pp. 214-218		
C32	Bell, "Vehicular C/N - A Global Satellite Solution," pp. (1989) 403-408		
C33	Foster, "Vehicle Location for Route Guidance," (1989) pp. 11-16		
C34	Saldin, et al., "Magnavox Automatic Vehicle Location Pilot System for the Toronto Department of Ambulance Services," (1989) pp. 194-201		
C35	Palmer, "Test Results of a Precise, Short Range, RF Navigational/Positional System," (1989) pp. 151-155		
C36	Parviainen, et al., "Future Mobile Information Systems: Potential applications and Systems Features," (1989) pp. A-36 - A-42		
C37	Pedersen, "User Applications of Mobile Satellite Services," (1989) pp. 398-402		
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C38	Hunter, "Vehicle Navigation and Fleet Management using Differential GPS," (1989) p. 366		
C39	Feuerstein et al., "A Precision Automatic Vehicle Location System for Use in Construction Automation," (1989) pp. 202-205 and A-43		
C40	Perlstein, "Automatic Vehicle Location Systems: A Tool for Computer Aided Despatch Systems of the Future," (1989) pp. 186-192 and Figure 1		
C41	Green et al., "La Constellation Primaire GPS A Vingt Et Un Satellites," (October 1989) pp. 469-485		
C42	Langley, "Radionavigation in a Time of Change," (Electronics & Communication Engineering Journal (November/December 1989) pp. 281-287		
C43	Wilkie, "Performance of a Backpack GPS in a Tropical Rain Forest," Photogrammetric Engineering and Remote Sensing, Vol. 55, No. 12, December 1989) pp. 1747-1749		
C44	Palmer, "Techniques of Navigating in a Farm Field," (Journal of The Institute of Navigation," Vol. 36, No. 4 (Winter 1989-90) pp. 337-344		
C45	RTCM Special Committee No.104, "RTCM Recommended Standards For Differential NAVSTAR GPS Service," Version 2.0 (January 1, 1990)		
C46	Goad, "Determination of Precise Position of a Moving Vehicle with GPS," (1990) pp. 367-272		
C47	U.S. Dept. of Transportation, "1990 Federal Radionavigation Plan #DOT-VNTSC-RSPA-90-3/DOD-4650.4," (1990) pp. cover sheet, 2-30 - 2-31; 3-42		
C48	Lachapelle et al., "Analysis of GPS and LORAN-C Performance for Land Vehicle Navigation in the Canadian Rockies," IEEE AES Magazine, (May 1992) pp. 24-28		
C49	Lachapelle et al., "Hybrid GPS/LORAN-C: An Effective Radionavigation System Mix for Vehicular Navigation in Mountainous Areas," (June 1992) pp. 1-9		
C50	Lachapelle, et al., "Quadruple Single Frequency Receiver System for Ambiguity Resolution On The Fly," ION PGS93 (September 1993) pp. 1, 3, 5		
C51	Lachapelle, et al., "GPS Versus LORAN-C For Vehicular Navigation in Urban and Mountainous Areas," IEEE VNIS93, (October 1993) 2 pages		
C52	Melgard, et al., "GPS Signal Availability in an Urban Area - Receiver Performance Analysis," IEEE PLANS'94 (April 1994) pp. 1/7, 3/7, 5, 7/7		
C53	Lachapelle et al., "GPS System Integration And Field Approaches In Precision Farming," ION National Technical Meeting/San Diego (January 1994) pp. 1, 3, 5, 7		

Examiner:

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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Form PTO-1449 (modified)		Atty. Docket No. 5863-00203	Serial No. 10/772,071
List of Patents and Publications for Applicant's INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		Applicants: Charles D. Huston and Darryl J. Cornish	
		Filing Date: 2/4/2004	Group: 2681
U.S. Patent Documents See Pages 1-3	Foreign Patent Documents See Page 3	Other Art See Pages 3-8	
C54	Purkey, "On Target," Golf Magazine May (1994) pp. 120-121		
C55	Parkinson, "A History of Satellite Navigation," Journal of The Institute of Navigation Vol. 42, No. 1, Special Issue (1995) pp. 109-164		
C56	Blackwell, "Overview of Differential GPS Methods," (January 1985) pp. 88-101		
C57	Transcript of Deposition of Gaylord B. Green; Defendant's Exhibits 1-4, 6-7, 9-15; and Plaintiffs' Exhibit 1 (May 17, 1997)		
C58	Transcript of Deposition Upon Oral Examination of Howard Israel and Exhibits 1-2 (June 24, 1997)		
C59	Transcript of Telephonic Deposition of Lawrence Molnar and Exhibits 1-2 (July 1, 1997)		

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